UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/908,953	07/19/2001	Robert W. Schwanke	2001P13007 US	1929	
Sigmons Corne	. 7590 08/07/2007			EXAMINER	
Siemens Corporation Intellectual Property Department			STERRETT, JONATHAN G		
186 Wood Avenue South Iselin, NJ 08830		·	ART UNIT	PAPER NUMBER	
1301111, 113 0002			3623		
			· 	•	
			MAIL DATE	DELIVERY MODE	
			08/07/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	09/908,953	SCHWANKE, ROBERT W.				
Office Action Summary	Examiner	Art Unit				
	Jonathan G. Sterrett	3623				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 29 M	ay 2007.					
2a) ☐ This action is FINAL . 2b) ☒ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-20,22-29 and 31-42</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-20,22-29 and 31-42</u> is/are rejected.						
	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
See the attached detailed Office action for a list	of the certified copies not receive	:u .				
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
Notice of Draitsperson's Patent Drawing Review (F10-946) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:					

DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 29 May 2007 has been entered.

Summary

2. This Non Final Office Action is responsive to the applicant's amendment of 29 May 2007. The amendment of 29 May 2007, amended Claims 1, 11, 20, 29, 40 and 42. Claims 1-20, 22-29 and 31-42 are pending.

Response to Amendments

3. The prior 112 2nd rejections of claims 1-20, 22-29 and 31-42 are withdrawn due to the amendments.

Response to Arguments

4. The applicant's arguments have been fully considered, but they are not persuasive.

5. The applicant argues with respect to Claims 1, 20 and 29 that the cited prior art does not teach the limitation of "schedule rules" independent of control flow dependencies.

The examiner respectfully disagrees.

As pointed out in the Office Action, the scheduling of tasks and deliverables is dependent upon the availability of resources, as cited in para 127. Para 124 states that deliverables in a phase can be independent of other deliverables. For example some deliverables could be a document or a form that needs to be completed or created, where his document does not have any precedence activities in the phase, i.e. it is independent. Since para 124 teaches the use of workflows to manage the product development process, this teaches that the workflow uses control flow data to manage the execution of tasks.

Para 116 and 118 teach that each product development project has unique needs and that templates are used and customized based on a workflow to create a program plan for a specific project. In creating a project, the templates suggest activities to the project management which are optional (e.g. for a particular phase, a number of "standard" activities or tasks are suggested; however, the project manager does not have to specify that these tasks are performed. They are optional.

Furthermore, the language of the claim is not clear as to what "optional" means.

Specifically, the claim cites that the activity scheduled for execution is "at the option of the participant and not automatically executed". The examiner would point out that standard workflows work this away, even aside from what Davies teaches. If a workflow

Application/Control Number: 09/908,953

Art Unit: 3623

on Control Hamber: 00/000,0

to complete a document has task A, B and C (performed by users 1, 2, and 3), and task A has been performed by user 1, then the workflow engine passes the document to user 2 since user 1 has completed their activity. Upon receiving the document in the workflow software, the task user 2 has to perform is not performed automatically, since they have to perform the task on the document, i.e. it is performed manually. Also, in a sense it is optional because even in a specified, classical workflow sense, the activities specified in the workflow could be delayed or the user could decide not to perform the task. This would stop the workflow, of course, and defeat the purpose of even having a workflow. Thus, is the activity or task optional in terms of the activity or task itself or optional in terms of whether the workflow could progress or the overall task be completed? It is not clear what the outcome of optional is in the context of the claim. Similarly in the context of the claims, there is no recitation as to what optional means in terms of whether the workflow is even completed or not. It is very ambiguous and unclear as to what "optional" means.

Davies teaches phases, where activities are grouped within a phase. Some of these activities have no precedence within a phase, that is they are standalone activities within a phase. These phases are contingent upon the rules granting passage from one phase to another (see para 120). Here the "no/no go" decision is a schedule rule that determines whether a project is passed into the next phase. Activities within the phase that belong within the phase, but have no precedence relationships within the phase meet the claim limitation of being optional because the timing of their execution is at the option of the participants.

Application/Control Number: 09/908,953 Page 5

Art Unit: 3623

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

7. Claims 1-20, 22-29 and 31-42 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Davies US 2003/0033191.

Regarding Claim 20, Davies teaches:

generating a process instance from a process definition which defines activities that are associated with the workflow process,

para 144, the lifecycle model is instantiated (i.e. a process instance is generated) when an appropriate model is selected that defines the activities associated with the process for conducting a project.

wherein the process definition includes an activity specification for each activity associated with the workflow process,

Para 116, the lifecycle model specifies the activities necessary for each project to complete phases and go through the lifecycle to completion. For each of these activities there is a specification of what the activity (i.e. assignment) is, where it occurs in the various phases and the various precedence relationships that define the activity's placement in the process.

Application/Control Number: 09/908,953

Art Unit: 3623

wherein the activity specification for each activity includes a rule that specifies one or more conditions under which the activity is initiated for execution based on workflow relevant data, independent of control flow dependencies;

Para 127, the relationships because phases (and their associated activities) are governed by business rules that determine when a product development phase starts and the next begins. This is independent of the definition of the phases as specified by the lifecycle model (para 116), because passage from one gate to another is determined by a gate review (para 120). See also para 185, activities can be carried over to another phase, independent of control flow dependencies that would normally specify them in the prior phase.

and upon the occurrence of a predetermined event, evaluating the schedules rules based on the workflow relevant data to initiate one or more activities for execution, whereby execution of an initiated activity is at the option of a workflow participant, and not automatically executed.

Para 20, the business (i.e. schedules) rules determine how objects are transitioned from state to state.

Para 23, the business rules govern deliverables that are necessary for completion of a current phase or activity.

Para 292, in the case of workflows associated with deliverables, the user can define whether those workflows are optional or not. These workflows are available to complete the deliverables associated with a phase (see para 262).

Para 261, Some of the deliverables necessary for completion of a phase may be considered optional by the program manager – this also occurs in para 185 where the assignments may be carried over into the next phase, as determined by a workflow participant.

Para 124, deliverables within phases are not automatically executed, either in terms of their timing or execution. They require a person to perform the deliverable where the timing is not exactly specified and thus are not automatically executed.

Davies teaches the use of schedule rules to determine when activities are to be executed based on the conditions that preceding activities and requirements (e.g. fulfillment of a gate review to pass to the next phase). Davies does not teach the use of Boolean operators, per se.

However, the use of Boolean operators to determine when conditions are met in a computer program are old and well known in the art. These provide a way to automatically determine if conditions are met so that subsequent steps may be automatically executed or scheduled.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Davies, regarding managing a workflow that uses a number of different phases and activities that require the accomplishment of preceding activities according to preset conditions, to include the step of determining that schedule

conditions are met using Boolean operators, because it would help automate the project management approach taught by Davies.

Regarding Claim 22, Davies teaches:

wherein the predetermined event includes a change of state of an executed activity.

Para 261, optional activities that can be selected to be executed are automatically started when a deliverable is activated. The deliverables are activated when a project (i.e. program) comes into play (para 144) and occurs at the transition from phase to another (see para

Regarding Claim 23, Davies teaches:

wherein the activity specification for each activity includes a permitted rule that specifies one or more conditions under which an activity that is not initiated for execution is permitted to be executed at the option of the workflow participant,

Para 262, the program manager can specify which activities (from those that are optional) are to be executed. See para 264, the checkbox indicating whether an activity is required or not is a "permitted rule", since it indicates that an activity is permitted to be executed at the option of the program manager.

the method further comprising the steps of:

determining if an activity that is not initiated for execution is permitted to be executed based on the activity specifications of the activity, in response to selection of the activity by the workflow participant; and executing the selected activity if it is permitted.

Para 264, The program manager determines if an activity that is not required (i.e. not initiated for workflow execution as a required activity) may be performed, i.e. it is an optional activity. If the program manager selects the activity, then the activity (i.e. the deliverable) is associated with a resource assignment to execute the deliverable (see para 268).

Regarding Claim 24, Davies teaches:

wherein the activity specification for each activity comprises an expected rule that specifies one or more conditions under which the activity is expected to be initiated for execution,

para 144, the life cycle model specifies that conditions that are necessary for the activities within the total lifecycle model to be initiated for execution. The activation of a particular project implies that the activities specified in the process description are expected to be complted.

the method further comprising the steps of:

determining if an activity that is not initiated for execution is expected to be initiated for execution during execution of the process instance based on activity

Art Unit: 3623

specifications; and preparing for execution of the activity if it is expected to be executed.

Para 147, the program manager prepares for execution of activities in the next phase (i.e. activities that are expected to be executed during instantiation of the next phase of the project as specified according to the project life cycle model). This planning includes the program manager receiving activities in their personal workspace.

Regarding Claim 25, Davies teaches:

finishing an executed activity, generating a message specifying a state of completion of the activity,

para 183, a gate review indicates a phase is completed (including at least one finished activity for that phase). The gatekeepers will generate a questionnaire (Figure 17) specifying a state of completion of the gate review (i.e. the phase).

recording the state of completion of the activity, and

para 183, Figure 17, the gate review questionnaire records the state of completion of the activity of the gate review.

reevaluating schedule rules of activities, if necessary, based on the state of completion.

Para 185, in the case of a conditional pass of the gate review (i.e. the state of completion of the phase and its associated activities), some of the activities may be carried over into the next phase, i.e. the business rules specifying those activities

belonging in one phase are reevaluated for those activities to be carried over into the next phase.

Regarding Claim 26, Davies teaches:

wherein the activity specification for each activity comprises a resources specification for listing at least one resource that is needed to execute the activity,

para 163, the role assignment specifies at least one resource that is needed to execute and complete the assignments (i.e. activities) for the project.

the method further comprising:

when two or more activities are initiated for execution at a given time, evaluating the resources specification of the two or more activities that are initiated for execution to determine a suggested sequence of executing the two or more initiated activities, whereby an actual sequence of executing the initiated activities is at the option of the workflow participant.

Para 144, once a program is initiated according to the lifecycle model, a program workspace is added for that program. Para 158, the program manager in the planning phase determines which resources are necessary and how the sequences in that phase may be changed (i.e. modifying phase relationships) – see para 163 for a discussion of the role assignment process. See figure 4a and 5 for illustrations of scheduling examples and an overview of the phased project.

Application/Control Number: 09/908,953

Art Unit: 3623

Regarding Claim 27, Davies teaches:

automatically routing a data item associated with an activity based on the activity specifications of the activity.

Para 172, the automatic updating of the schedule based on the completion of activities by responsible roles includes automatically includes routing data items regarding timing associated with specific activities to the master schedule which shows those items as being complete.

Regarding Claim 28, Davies teaches:

automatically archiving a data item associated with an activity based on the activity specifications of the activity.

Para 178, costs incurred during the program are automatically archived. Para 172, schedule changes are also automatically archived to the master schedule to show how schedule changes expand or contract the schedule. Costs and schedule items are associated with activities based on the specifications of those activities (e.g. complete a certain item by a certain time; and; how much cost was incurred to complete a certain activity.

Regarding Claim 39, Davies teaches the limitations above in claim 26, and also where the process definition further comprises an activity network specification comprising one or more relations between activities which are used to determine a

Art Unit: 3623

suggested sequence of execution two or more activities that are initiated for execution at a given time;

Para 158, after initiation of a project, the program manager can specify the phase relationships used to determine the order (i.e. sequence) of activities for that phase see para 126 also, the relationship between deliverables and phases can be modified to suit the particular program. The definition of standard program lifecyles (see para 155) provides for an activity network specification that lays out the phases and deliverables for a program, i.e. including any precedence relationships and sequencing. If the network specification specifies that two activities are scheduled to occur at the same time, then the program manager can redefine the sequencing, ie. according to his option.

Regarding Claim 40, Davies teaches where relations between activities as specified by the activity network specifications (i.e. the program lifecycle) include precedence (see Figure 4a example 3 which shows an example of a precedence relationship – also see Figure 5 which shows that all the activities in one phase precedes those of another). Para 185 notes that precedence may be overridden by the program manager in the case of a conditional pass to the next phase. Additionally, some activities may need to be redone (i.e. precedes -back). Since Davies teaches a series of phases in a product development plan, the specification of these phases (e.g. as phase 1, 2, 3 and 4) includes when a phase precedes another (i.e. precedes) and when a phase precedes another by two or more phases (i.e. precedes back).

Application/Control Number: 09/908,953 Page 14

Art Unit: 3623

Claims 1-19, 29, 31-38, 41 and 42 recite similar limitations to those addressed

by the rejection of Claims 20, 22-28, 39 and 40 above, and are therefore rejected under

the same rationale.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Jonathan G. Sterrett whose telephone number is 571-

272-6881. The examiner can normally be reached on 8-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Tariq Hafiz can be reached on 571-272-6729. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the 9.

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

JGS 7-31-2007

EXAMINER

AU 3623